	OIP E vo							
	NOV 0 5 2001	OFFICE 9			.			
1	FIRE TRADE	F/ HE UNITE	ED STATE	ES PATENT	AND TRADE	MARK/OF	FICE	IA
2	APPLICANT	:	SIMON	J. BROADLE	ΞΥ	\mathcal{L}	M	٦ ٦
3	SERIAL NO.	:	09/478,5	578)	C	1 /
5	FILED	:	January	6, 2000) Ex. K. N)		
6	FOR:	:	FREQU	SCILLATING ENCY CLOS D AMPLIFIE) Group 2)))	817) 3	11 Pl 3/1//
7 8		CONTIN			I APPLICATI) ON (CDA)	JL	UW
9		CONTIN		MINARY AM		ON (CPA)		
10	Hon. Commission	oner of					150	
11	Hon. Commissioner of Patents and Trademarks, Washington, D.C. 20231							
12	3			•				
13	Dear Sir:						CENTRO 1 / 2 H	百
14	IZ a di cara		4 (0		01 : 44		2000	
15 16	Kindiy ca	ncei Ciaim	1S 1 to 3 a	ana insert nev	w Claims 4 to	б.	O	
17								
18								
19								
20								
21								
22								
23	I hereby certify t							
24	deposited with the United States Postal Service as EXPRESS MAIL NO. ET 613 018 752 US							
25	in an envelope addressed to: HON. COMMISSIONER OF PATENTS AND TRADEMARKS, Washington,							
26	D.C. 20231 on N	lovember	5, 2001					
27 28	TOD R. NISSLE	, Reg. No.	29,241	Novemb DATE	er 5, 2001			

The foregoing amendments are reflected in the attached APPENDIX I: Replacements, Deletions, Additions and APPENDIX II: Marked up Versions.

COMMENTS

The new Claims 4 to 6 specify that the amplifier circuit utilizes is a noninverting, negative feedback error amplifier circuit as indicated by reference character 14 in Fig. 2 of the application. A non-inverting, negative feedback error amplifier circuit does not appear to be utilized in the Higashiyama et al. or Pullen et al (U.S. 6,107,875) references of record.

Respectfully submitted,

TOD R. MSSLE, Reg. No. 29,241

TOD R. NISSLE, P.C.

P. O. Box 55630

Phoenix, Arizona 85078

Tel: 602-494-8700 Fax: 602-494-8707

E-mail: nissle@nissle.com

Attorney's Docket No. 995-P-3



APPENDIX I: Replacements, Deletions, Additions

REPLACEMENTS

I.	<u>Title</u> : None.	
I I.	Specification: None.	
III.	Claims: None.	
IV.	Abstract: None.	
		DELETIONS
1.	<u>Title</u> : None.	
II.	Specification: None.	
III.	Claims	
	Delete Claims 1 to 3.	
IV.	Abstract: None.	
		ADDITIONS
l.	<u>Title</u> : None.	
II.	Specification: None	
111	Claims	

- 4. A self oscillating audio Class D amplifier, comprising
- (a) a detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog output signal to drive a load;
- (d) a non-inverting, negative feedback error amplifier circuit to
 - (i) receive said amplified a halog output signal and compare said output signal to said input signal for gain-correction purposes, and
 - (ii) produce said PVM waveform control signal.
- 5. A self oscillating audio Class D amplifier, comprising
- (a) a detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- (c) an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog-output signal to drive a load;
- (d) a non-inverting, negative feedback error amplifier circuit to
 - (i) receive said amplified analog output signal and compare said output signal to said input signal for gain-correction purposes, and
 - (ii) produce said PVM waveform control signal;

the operation of said amplifier slowing as the magnitude of the error in gain increases.

- 6. A self oscillating audio Class D amplifier, comprising
- (a) a variable frequency zero crossing detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- (c) an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog output signal to drive a load;
- (d) a non-inverting, negative feedback, error amplifier circuit to
 - (i) receive said amplified analog output signal and compare said output signal to said input signal for gain-correction purposes, and
- (ii) produce said PVM waveform control signal; the operation of said amplifier slowing as the magnitude of the error in gain increases.

IV. Abstract: None.

APPENDIX II: Marked Up Versions

Marked Up Versions

I. <u>Title</u>: None.

II. <u>Specification:</u> None.

III. <u>Claims</u>: None.

IV. Abstract: None.